

What is claimed is:

1. A system for providing customer premises with broadband data communication services access and narrowband telecommunication services access using a cable from a public communications network, the system comprising:

a distribution network including a number of jacks at a customer premises location, the distribution network using ADSL technology to distribute both higher frequency signals used for broadband communication and lower frequency signals used for narrowband communication;

a splitter filter connected to at least one of the jacks for separating higher frequency signals from lower frequency signals;

broadband access means connected to a high frequency port of the splitter filter; and

narrowband access means connected to a low frequency port of the splitter filter, wherein each of said broadband and narrowband access means comprises a number of user interfaces to access the broadband and narrowband services.

2. The system according to claim 1, wherein the broadband access means comprises an ADSL network termination.

3. The system according to claim 2, wherein the ADSL network termination comprises an ADSL modem and a number of broadband user interfaces for communication with a number of user stations.

4. The system according to claim 3, wherein at least one of the broadband user interfaces comprises one or more of a USB-interface, an ATM-interface, and an Ethernet interface.

5. The system according to claim 1, wherein the narrowband access means comprises means for accessing a separate local area network.

6. The system according to claim 5, wherein the separate local area network is wireless and the narrowband access means further comprises a base station.

7. The system according to claim 6, wherein the narrowband access means further comprises a DECT base station.

8. The system according to claim 5, wherein the narrowband access means further comprises a POTS interface.

9. The system according to claim 5, wherein the separate local area network comprises at least one of an IR and a copper distribution network.

10. The system according to claim 1, wherein the system is connected to a PSTN over the cable.

11. The system according to claim 1, wherein the system is connected to an ISDN network over the cable.

12. The system according to claim 11, wherein the narrowband access means comprises an ISDN network termination that includes converting means for converting the ISDN network termination to an interface for connecting to a separate local area network.

13. The system according to claim 1, wherein the broadband and narrowband access means are integrated in a common entity.

14. The system according to claim 1, wherein the splitter filter and the broadband access means are integrated in a common entity.

5 15. The system according to claim 1, wherein the splitter filter and the narrowband access means are integrated in a common entity.

10 16. The system according to claim 1, wherein the splitter filter, the narrowband access means, and the broadband access means are integrated in a common entity.

15 17. The system according to claim 1, wherein an entity comprising at least the splitter filter is detachably connected to the at least one jack.

20 18. The system according to claim 1, wherein the distribution network further comprises an existing customer premises distribution network for POTS services that is used for distribution of narrowband and broadband services.

19. An arrangement for providing broadband data communications access and narrowband telecommunications access at a customer premises location, comprising:

25 a distribution network used for narrowband and broadband access and including a number of jacks;

broadband access means including an ADSL network termination;

narrowband access means;

30 a splitter filter connected to at least one jack of the distribution network for separating lower frequency signals used for narrowband communication from higher frequency signals used for broadband communication; and

a separate network used to distribute narrowband signals.

20. The arrangement according to claim 19, wherein the narrowband access means comprises a wireless radio base station and the separate network is a wireless local area network.

21. The arrangement according to claim 19, wherein the splitter filter, the broadband access means, and the narrowband access means are integrated in a common entity.

22. The arrangement according to claim 19, wherein one of the splitter filter, the broadband access means, and the narrowband access means is provided as a separate entity and the remaining two of the splitter filter, broadband access means, and narrowband access means are integrated in a common entity.

23. The arrangement according to claim 19, wherein the splitter filter, the narrowband access means, and the broadband access means are provided as three separate entities.

24. The arrangement according to claim 21, wherein an entity comprising at least the splitter filter is detachably connected to the at least one jack.

25. The arrangement according to claim 19, wherein an existing POTS distribution network at the customer premises location is used for distribution of narrowband and broadband services.

26. A method for providing access to broadband and

narrowband services at a customer premises location using ADSL, the method comprising the steps of:

providing a distribution network including a number of jacks at the customer premises location for communication with a public telecommunications network over a cable;

connecting a splitter filter to at least one of the jacks for separating higher frequency signals used for broadband communication from lower frequency signals used for narrowband communication;

using broadband access means connected to the high frequency port of the splitter filter for broadband access; and

using narrowband access means connected to the low frequency port of the splitter filter and a separate network for narrowband communication.

27. The method according to claim 26, wherein the separate network comprises a wireless local area network and the narrowband access means comprises at least a base station.

28. The method according to claim 27, wherein the wireless local area is a DECT access system and the base station comprises a DECT base station.

29. The method according to claim 26, further comprising the step of:

detachably connecting an entity comprising at least the splitter filter to the at least one jack.

30. Method according to claim 29, wherein the entity is an integrated entity further comprising at least one of the broadband access means and narrowband access means, the broadband and narrowband access means each having respective user interfaces.

Parameter	Value	Unit
Initial temperature	25.0	°C
Final temperature	25.0	°C
Heating rate	10.0	°C/min
Modulation amplitude	0.5	°C
Modulation frequency	0.1	Hz
Cell type	Heating	
Cell diameter	1.0	mm
Cell thickness	0.5	mm
Cell material	Aluminum	
Cell surface area	0.785	cm <sup>2</sup>
Cell volume	0.393	cm <sup>3</sup>
Cell mass	0.393	g
Cell density	1.0	g/cm <sup>3</sup>
Cell specific heat	0.9	J/g°C
Cell thermal conductivity	0.02	W/m°C
Cell thermal diffusivity	0.0002	m <sup>2</sup> /s
Cell thermal expansion coefficient	0.0001	1/°C
Cell thermal contraction coefficient	0.0001	1/°C
Cell thermal stability	0.0001	1/°C
Cell thermal resistance	0.0001	1/°C
Cell thermal capacitance	0.0001	1/°C
Cell thermal inductance	0.0001	1/°C
Cell thermal impedance	0.0001	1/°C
Cell thermal admittance	0.0001	1/°C
Cell thermal conductance	0.0001	1/°C
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